

LISTING OF THE CLAIMS

1. (Currently Amended) A fault monitoring method, comprising the steps of:  
providing of a commodity management radio communicating apparatus in  
which plural a plurality of portable radio communication terminals in a commodity  
management system, each of which manages ~~manage~~ commodities by communicating  
with an inventory controller via a radio communication base station, ~~said fault~~  
~~monitoring method comprising:~~

a step of automatically executing a test of a radio communication section in  
~~said~~ arbitrary portable radio communication terminals when a number of retrying  
times of radio communication between said arbitrary portable radio communication  
terminals and said radio communication base station exceeds a predetermined number  
of times; and

a step of displaying a fault of said radio communication section on a display  
section of said arbitrary portable radio communication terminals when said fault  
occurs.

2. (Currently amended) ~~The~~ A fault monitoring method of ~~the commodity~~  
~~management radio communicating apparatus according to Claim 1;~~ a plurality of  
portable radio communication terminals used in a commodity management system,  
each of which manages commodities by communicating with an inventory controller  
via a radio communication base station, said fault monitoring method comprising:

a step of automatically executing a test of a radio communication section in  
arbitrary portable radio communication terminals when a number of retrying times of  
radio communication between said portable radio communication terminals and said  
radio communication base station exceeds a predetermined number of times; and

a step of displaying a fault of said radio communication section on a display  
section of said arbitrary portable radio communication terminals when said fault  
occurs,

wherein a call time interval of retrying said radio communication between said  
arbitrary portable radio communication terminals and said radio communication base

15 station is set longer than an average communication time of said radio communication  
 16 between each of said portable radio communication terminals and said radio  
 17 communication base station in said commodity management system.

1 3. (Currently amended) ~~The~~ A fault monitoring method of ~~the commodity~~  
 2 ~~management radio communicating apparatus according to Claim 1;~~ a plurality of  
 3 portable radio communication terminals used in a commodity management system,  
 4 each of which manages commodities by communicating with an inventory controller  
 5 via a radio communication base station; said fault monitoring method:

6 a step of automatically executing a test of a radio communication section in  
 7 arbitrary portable radio communication terminals when a number of retrying times of  
 8 radio communication between said arbitrary portable radio communication terminals  
 9 and said radio communication base station exceeds a predetermined number of times;  
 10 and

11 a step of displaying a fault of said radio communication section on a display  
 12 section of said arbitrary portable radio communication terminals when said fault  
 13 occurs,

14 wherein said test for said radio communication section is executed after  
 15 checking that said radio communication between each of said portable radio  
 16 communication ~~terminal~~ terminals other than said arbitrary portable radio  
 17 communication terminals and said radio communication base station is vacant  
 18 continuously in a case out of an execution prohibiting time zone in said commodity  
 19 management system.

1 4. (Currently Amended). The fault monitoring method of a plurality of portable  
 2 radio communication terminals used in the a commodity management system radio  
 3 ~~communicating apparatus~~ according to Claim 3, wherein said test for said radio  
 4 communication section is executed after passing a predetermined time by returning to  
 5 a check of a vacant state in said case out of said execution prohibiting time zone in  
 6 said commodity management system when said radio communication between each of  
 7 said portable radio communication ~~terminal~~ terminals other than said arbitrary

8 portable radio communication terminals and said radio communication base station  
9 and is waited for until said vacant state.

1 5. (Currently Amended). The fault monitoring method of a plurality of portable  
2 radio communication terminals used in the a commodity management system ~~radio~~  
3 ~~communicating apparatus~~ according to Claim 3, wherein said test for said radio  
4 communication section is executed after passing a predetermined time by returning to  
5 a check of said execution prohibiting time zone of said test in a case in said execution  
6 prohibiting time zone in said commodity management system and is waited for until  
7 out of said execution prohibiting time zone.

1 6. (Currently Amended) The fault monitoring method of a plurality of portable  
2 radio communication terminals used in a the commodity management system ~~radio~~  
3 ~~communicating apparatus~~ according to Claim 4, wherein said test for said radio  
4 communication section is executed after passing a predetermined time by returning to  
5 a check of said execution prohibiting time zone of said test in a case in said execution  
6 prohibiting time zone in said commodity management system and is waited for until  
7 out of said execution prohibiting time zone.

1 7. (Currently Amended). A storage medium storing a fault monitoring program  
2 to cause a computer to carry out a fault monitoring method of a plurality of portable  
3 radio communication terminals in a commodity management system, each of which  
4 manages ~~radio communicating apparatus in which plural portable radio~~  
5 ~~communication terminals in a commodity management system manage commodities~~  
6 by communicating with an inventory controller via a radio communication base  
7 station, said fault monitoring method comprising:

8 a step of automatically executing a test of a radio communication section in  
9 said arbitrary portable radio communication terminals when a number of retrying  
10 times of radio communication between said arbitrary portable radio communication  
11 terminals and said radio communication base station exceeds a predetermined number  
12 of times; and

13 a step of displaying a fault of said radio communication section on a display  
14 section of said arbitrary portable radio communication terminals when said fault  
15 occurs.

1 8. (Original) A fault monitoring program to cause a computer to carry out a fault  
2 monitoring method of a plurality of commodity management radio communicating  
3 apparatus in which plural portable radio communication terminals in a commodity  
4 management system, each of which manages ~~manage~~ commodities by communicating  
5 with an inventory controller via a radio communication base station, said fault  
6 monitoring method comprising:

7 a step of automatically executing a test of a radio communication section in  
8 ~~said~~ arbitrary portable radio communication terminals when a number of retrying  
9 times of radio communication between said arbitrary portable radio communication  
10 terminals and said radio communication base station exceeds a predetermined number  
11 of times; and

12 a step of displaying a fault of said radio communication section on a display  
13 section of said arbitrary portable radio communication terminals when said fault  
14 occurs.